

10/589143  
IAP11 Rec'd PCT/PTO 14 AUG 2006

Practitioner's Docket No. U 016440-6  
PATENT

**TRANSMITTAL LETTER TO THE U.S. DESIGNATED OFFICE (DO/US)--  
ENTRY INTO THE U.S. NATIONAL STAGE UNDER CHAPTER I**

INTERNATIONAL APPLICATION NO. PCT/RU2004/000464 INTERNATIONAL FILING DATE 24 NOVEMBER 2004 PRIORITY DATE CLAIMED

TITLE OF INVENTION

METHOD FOR QUANTITATIVELY DETECTING BIOLOGICAL TOXINS

APPLICANT(S)

1. DEMENTIEVA, Ekaterina Igorevna
2. DJUKOVA, Veronika Igorevna
3. ZASEDATELEV, Alexandre Sergeevich
4. RUBINA, Alla Jurievna
5. STOMAKHIN, Andrei Alexandrovich
6. NESMEYANOV, Vladimir Andreevich
7. GRISHIN, Evgeny Vasilievich

Mail Stop PCT  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

ATTENTION: DO/US

Optional Customer No. Bar Code



00140

PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

We draw the attention of the Examiner to the attached English-language

**CERTIFICATION UNDER 37 C.F.R. 1.8(a) and 1.10\***

*(When using Express Mail, the Express Mail label number is mandatory;  
Express Mail certification is optional.)*

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

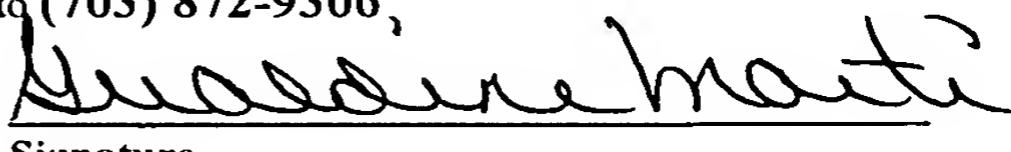
deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. **37 C.F.R. 1.8(a)** **37 C.F.R. 1.10\***

with sufficient postage as first class mail.

as "Express Mail Post Office to Addressee"  
Mailing Label No. EV 815 585 518 US  
(mandatory)

**TRANSMISSION**

transmitted by facsimile to the Patent and Trademark Office, to (703) 872-9306,

  
Signature

Date: August 14, 2006

**GERALDINE MARTI**

*(type or print name of person certifying)*

\* *Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.*

EXPRESS MAIL LABEL  
NO.: EV 815 585 518 US

10/589143  
IAP11 Rec'd PCT/PTO 14 AUG 2006

version of an International-type Search Report from a foreign in respect of counterpart Application No. PCT/RU2004/000464 that indicates the degree of relevance found by the foreign office. The Search Report makes consideration of any non-English art required. MPEP 609.

We also draw the attention of the Examiner to the attached references which are considered in the specification and which are also listed on the attached form PTO-1449.

Form PTO-1449 is also attached with reference copies.

Respectfully submitted,



WILLIAM R. EVANS  
LADAS & PARRY LLP  
26 WEST 61<sup>ST</sup> STREET  
NEW YORK, N.Y. 10023  
REG.NO.25,858(212)708-1930

FORM PTO-1449  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	U. S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	10/58913 SERIAL NO.
	U 016440-6		
	APPLICANT		
	Ekaterina Igorevna DEMENTIEVA et al.		
	FILING DATE	GROUP	

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REFERENCE DESIGNATION	DOCUMENT NUMBER	DATE	NAME	FILING DATE IF APPROPRIATE	
	AA	5,770,721	06/1998	Ershov et al.		

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AB	2 216 547	11/2003	RU	X	
	AC	2 175 972	11/2001	RU		X

## OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

	AD	Partial English Translation of RU 2 216 547 dated November 20, 2003
	AE	Rubina, A.Y. et al. "Hydrogel-Based Protein Microchips: Manufacturing, Properties, and Applications" <i>BioTechniques</i> (2003) Vol. 34, No. 5, pp 1008-1022
	AF	Ligler, F. et al. "Array Biosensor for Detection of Toxins" <i>Anal Bioanal Chem</i> (2003) Vol. 377, pp 469-477
	AG	Rubina, A.Y. et al. "Hydrogel Drop Microchips with Immobilized DNA: Properties and Methods for Large-Scale Production" <i>Analytical Biochemistry</i> (2004) Vol. 325, pp 92-106
	AH	English Abstract of JP 8-75742 dated March 22, 1996
	AI	Poli, M.A. et al. "Detection of Ricin by Colorimetric and Chemiluminescence ELISA" <i>Toxicon</i> (1994) Vol. 32, No. 11, pp 1371-1377
	AJ	Poli, M.A. et al. "Sensitive and Specific Colorimetric ELISAs for <i>Staphylococcus Aureus</i> Enterotoxins A and B in Urine and Buffer" <i>Toxicon</i> (2002) Vol. 40, pp 1723-1726
	AK	Engler, K.H. et al. "Rapid Enzyme Immunoassay for Determination of Toxigenicity Among Clinical Isolates of <i>Corynebacteria</i> " <i>Journal of Clinical Microbiology</i> (2000) Vol. 38, No. 4, pp 1385-1389
	AL	Ewalt, K. et al. "Detection of Biological Toxins on an Active Electronic Microchip" <i>Analytical Biochemistry</i> (2001) Vol. 289, pp 162-172
	AM	Grow, A. et al. "New Biochip Technology for Label-Free Detection of Pathogens and Their Toxins" <i>Journal of Microbiological Methods</i> (2002) Vol. 53, pp 221-233
	AN	Rubina, A.Y. et al. "Protein Microchips" <i>Reports of the Academy of Sciences</i> (2001) Vol. 381, No. 5, pp 701-704
	AO	Hesselberth, J. et al. "In Vitro Selection of RNA Molecules that Inhibit the Activity of Ricin A-Chain" <i>The Journal of Biological Chemistry</i> (2000) Vol. 275, No. 7, Issue of February 18, pp 4937-4942
	AP	Bruno, J. et al. "Use of Magnetic Beads in Selection and Detection of Biotoxin Aptamers by Electrochemiluminescence and Enzymatic Methods" <i>BioTechniques</i> (2002) Vol. 32, No. 1, pp 178-183
	AQ	Hermanson, G. "Bioconjugate Techniques" <i>Academics Press</i> (1996) pp 302-316, 460-478, and 575-584
	AR	Barsky, V. et al. "Fluorescence Data Analysis on Gel-Based Biochips" <i>Journal of Biomolecular Screening</i> (2002) Vol. 7, No. 3, pp 247-257

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.